```
Sequence Listing could not be accepted due to errors.
See attached Validation Report.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: Mon Jun 18 19:13:06 EDT 2007
Reviewer Comments:
<210> 2554
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: synthetic
<220>
<221> misc_feature
<222> (1)..(1)
<223> 5'-3 attached terminal deoxyabasic moiety
<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moiety
<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for any nucleotide
<400> 2554
nnnnnnnnt tnnnnnnnt t
21
The above explanation for "n" is invalid: t's are at locations 20-21:
"n" is at locations 1-29--those locations need explanation.
```

Validated By CRFValidator v 1.0.2

Application No:

10758155

Version No:

2.0

Input Set:

Output Set:

Started: 2007-06-18 18:53:12.969

Finished: 2007-06-18 18:53:30.516

Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 547 ms

Total Warnings: 2752

Total Errors: 33

No. of SeqIDs Defined: 2753

Actual SeqID Count: 2753

Error code		Error Description									
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(3)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(4)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(5)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(7)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(8)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(9)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(13)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(14)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(19)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(20)

Input Set:

Output Set:

Started: 2007-06-18 18:53:12.969 **Finished:** 2007-06-18 18:53:30.516

Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 547 ms

Total Warnings: 2752
Total Errors: 33

No. of SeqIDs Defined: 2753
Actual SeqID Count: 2753

Ε

342

Error code **Error Description** This error has occured more than 20 times, will not be displayed W 251 Found intentionally skipped sequence in SEQID (2446) W 333 tabs used in amino acid numbering SEQID (2446) 342 F. 'n' position not defined found at POS: 2 SEQID(2554) 342 Ε 'n' position not defined found at POS: 3 SEQID(2554) 342 F 'n' position not defined found at POS: 4 SEQID(2554) 342 'n' position not defined found at POS: 5 SEQID(2554) Ε 342 E 'n' position not defined found at POS: 6 SEQID(2554) 342 E 'n' position not defined found at POS: 7 SEQID(2554) 342 Ε 'n' position not defined found at POS: 8 SEQID(2554) Ε 342 'n' position not defined found at POS: 9 SEQID(2554) 342 Ε 'n' position not defined found at POS: 12 SEQID(2554) 342 Ε 'n' position not defined found at POS: 13 SEQID (2554) Ε 342 'n' position not defined found at POS: 14 SEQID (2554) 342 Ė 'n' position not defined found at POS: 15 SEQID (2554) E 342 'n' position not defined found at POS: 16 SEQID(2554) E 342 'n' position not defined found at POS: 17 SEQID (2554) Ε 342 'n' position not defined found at POS: 18 SEQID (2554) 342 E 'n' position not defined found at POS: 19 SEQID(2554) 342 Е 'n' position not defined found at POS: 1 SEQID(2555) Ε 342 'n' position not defined found at POS: 2 SEQID(2555)

'n' position not defined found at POS:

3 SEQID (2555)

Input Set:

Output Set:

Started: 2007-06-18 18:53:12.969

Finished: 2007-06-18 18:53:30.516

Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 547 ms

Total Warnings: 2752

Total Errors: 33

No. of SeqIDs Defined: 2753

Actual SeqID Count: 2753

Error code Error Description

E 342 'n' position not defined found at POS: 4 SEQID(2555)

This error has occured more than 20 times, will not be displayed

SEQUENCE LISTING

- <110> Sirna Therapeutics, Inc.
 McSwiggen, James
 Beigelman, Leonid
 Pavco, Pamela
- <120> RNA Interference Mediated Inhibition of Vascular Endothelial Growth Factor and Vascular Endothelial Growth Factor Receptor Gene Expression Using Short Interfering Nucleic Acid (siNA)
- <130> 400/141 (MBHB02742-N)
- <140> 10758155
- <141> 2004-01-12
- <150> 10/758,155
- <151> 2004-01-12
- <150> US 10/665,951
- <151> 2003-09-18
- <150> US 10/664,668
- <151> 2003-09-18
- <150> PCT/US 03/05022
- <151> 2003-02-20
- <150> US 60/399,348
- <151> 2002-07-29
- <150> US 60/393,796
- <151> 2002-07-03
- <150> US 10/287,949
- <151> 2002-11-04
- <150> US 10/306,747
- <151> 2002-11-27
- <150> PCT/US 02/17674
- <151> 2002-05-29
- <150> US 60/358,580
- <151> 2002-02-20
- <150> US 60/363,124
- <151> 2002-03-11
- <150> US 60/386,782
- <151> 2002-06-06
- <150> US 60/406,784
- <151> 2002-08-29
- <150> US 60/408,378
- <151> 2002-09-05

```
<150> US 60/409,293
<151> 2002-09-09
<150> US 60/440,129
<151> 2003-01-15
<150> US 60/334,461
<151> 2001-01-30
<160> 2753
<170> PatentIn version 3.3
<210> 1
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 1
gcggacacuc cucucggcu
                                                                    19
<210> 2
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 2
uccucccgg cagcggcgg
                                                                    19
<210> 3.
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 3
gcggcucgga gcgggcucc
                                                                   19
<210> 4
<211> 19
<213> Artificial Sequence
<220>
```

<223> Description of Artificial Sequence: Synthetic

```
<400> 4
cggggcucgg gugcagcgg
                                                                    19
<210> 5
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 5
gccagcggc cuggcggcg
                                                                    19
<210> 6
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 6
gaggauuacc cggggaagu
                                                                    19
<210> 7
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 7
ugguugucuc cuggcugga
                                                                    19
<210> 8
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 8
agccgcgaga cgggcgcuc
                                                                   19
<210> 9
<211> 19
<212> RNA
```

<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 9
cagggcgcgg ggccggcgg
                                                                    19
<210> 10
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 10
gcggcgaacg agaggacgg
                                                                    19
<210> 11
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 11
gacucuggcg gccgggucg
                                                                    19
<210> 12
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 12
guuggccggg ggagcgcgg
                                                                    19
<210> 13
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 13
ggcaccgggc gagcaggcc
                                                                    19
```

```
<211> 19
<212> RNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Synthetic
<400> 14
cgcgucgcgc ucaccaugg
                                                                    19
<210> 15
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 15
gucagcuacu gggacaccg
                                                                    19
<210> 16
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 16
gggguccugc ugugcgegc
                                                                    19
<210> 17
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 17
cugcucagcu gucugcuuc
                                                                    19
<210> 18
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 18
cucacaggau cuaguucag
```

```
<210> 19
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 19
gguucaaaau uaaaagauc
                                                                    19
<210> 20
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 20
ccugaacuga guuuaaaag
                                                                    19
<210> 21
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 21
ggcacccagc acaucaugc
                                                                    19
<210> 22
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 22
caagcaggcc agacacugc
                                                                    19
<210> 23
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
```

<223> Description of Artificial Sequence: Synthetic

```
<400> 23
                                                                    19
caucuccaau gcagggggg
<210> 24
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 24
gaagcagccc auaaauggu
                                                                    19
<210> 25
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 25
ucuuugccug aaaugguga
                                                                    19
<210> 26
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 26
                                                                    19
aguaaggaaa gcgaaaggc
<210> 27
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 27
cugagcauaa cuaaaucug
                                                                    19
<210> 28
<211> 19
```

<212> RNA

<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 28
gccuguggaa gaaauggca
                                                                    19
<210> 29
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 29
aaacaauucu gcaguacuu
                                                                    19
<210> 30
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 30
uuaaccuuga acacagcuc
                                                                    19
<210> 31
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 31
caagcaaacc acacuggcu
                                                                    19
<210> 32
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 32
uucuacagcu gcaaauauc
                                                                    19
```

```
<211> 19
 <212> RNA
<213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Synthetic
 <400> 33
cuagcuguac cuacuucaa
                                                                     19
<210> 34
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 34
aagaagaagg aaacagaau
                                                                     19
<210> 35
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 35
ucugcaaucu auauauuua
                                                                     19
<210> 36
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 36
auuagugaua cagguagac
                                                                    19
<210> 37
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 37
ccuuucguag agauguaca
```

```
<210> 38
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 38
agugaaaucc ccgaaauua
                                                                    19
<210> 39
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 39
auacacauga cugaaggaa
                                                                    19
<210> 40
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 40
agggagcucg ucauucccu
                                                                    19
<210> 41
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 41
ugccggguua cgucaccua
                                                                    19
<210> 42
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
```

```
<400> 42
aacaucacug uuacuuuaa
                                                                    19
<210> 43
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 43
aaaaaguuuc cacuugaca
                                                                    19
<210> 44
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 44
acuuugaucc cugauggaa
                                                                    19
<210> 45
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 45
aaacgcauaa ucugggaca
                                                                    19
<210> 46
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 46
aguagaaagg gcuucauca
                                                                    19
<210> 47
<211> 19
```

<212> RNA

<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 47
auaucaaaug caacguaca
                                                                     19
<210> 48
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 48
aaagaaauag ggcuucuga
                                                                    19
<210> 49
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 49
accugugaag caacaguca
                                                                    19
<210> 50
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 50
aaugggcauu uguauaaga
                                                                    19
<210> 51
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 51
acaaacuauc ucacacauc
                                                                    19
```

```
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 52
cgacaaacca auacaauca
                                                                    19
<210> 53
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 53
auagaugucc aaauaagca
                                                                    19
<210> 54
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 54
acaccacgcc cagucaaau
                                                                    19
<210> 55
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 55
uuacuuagag gccauacuc
                                                                    19
<210> 56
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 56
cuuguccuca auuguacug
```

```
<210> 57
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 57
gcuaccacuc ccuugaaca
                                                                    19
<210> 58
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 58
acgagaguuc aaaugaccu
                                                                    19
<210> 59
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 59
uggaguuacc cugaugaaa
                                                                    19
<210> 60
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 60
aaaaauaaga gagcuuccg
                                                                    19
<210> 61
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
```

<223> Description of Artificial Sequence: Synthetic

```
<400> 61
guaaggcgac gaauugacc
                                                                     19
<210> 62
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 62
caaagcaauu cccaugcca
                                                                    19
<210> 63
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 63
aacauauucu acaguguuc
                                                                    19
<210> 64
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 64
cuuacuauug acaaaaugc
                                                                    19
<210> 65
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 65
cagaacaaag acaaaggac
                                                                    19
<210> 66
<211> 19
<212> RNA
```

<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 66
cuuuauacuu gucguguaa
                                                                    19
<210> 67
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 67
aggaguggac caucauuca
                                                                    19
<210> 68
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 68
aaaucuguua acaccucag
                                                                    19
<210> 69
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223>
      Description of Artificial Sequence: Synthetic
<400> 69
                                                                    19
gugcauauau augauaaag
<210> 70
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 70
gcauucauca cugugaaac
                                                                    19
```

```
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 71
caucgaaaac agcaggugc
                                                                    19
<210> 72
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 72
cuugaaaccg uagcuggca
                                                                    19
<210> 73
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 73
aagcggucuu accggcucu
                                                                    19
<210> 74
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 74
ucuaugaaag ugaaggcau
                                                                    19
<210> 75
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 75
uuucccucgc cggaaguug
```

```
<210> 76
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 76
guaugguuaa aagaugggu
                                                                     19
<210> 77
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 77
uuaccugcga cugagaaau
                                                                    19
<210> 78
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 78
ucugcucgcu auuugacuc
                                                                    19
<210> 79
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
<400> 79
cguggcuacu cguuaauua
                                                                    19
<210> 80
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
```

<223> Description of Artificial Sequence: Synthetic

<211> 19

<212> RNA

<213> Artificial Sequence

<2